Alexander Barvinok
University of Michigan
April 24•25•26
4:30–5:30pm
Lectures: Rm. 2-190
Reception: 4pm, Rm. 2-290

Lorentzian polynomials

Lecture 1
The space of Lorentzian polynomials

Lecture 2
Discrete convexity and continuous convexity: a tropical connection

Lecture 3
Hodge-Riemann relations for Potts model partition functions and other examples

June Huh
Institute for Advanced Study
April 29•30•May 1
4:30–5:30pm
Lectures: Rm. 2-190
Reception: 4pm, Rm. 2-290

Combinatorics, complexity and complex zeros of partition functions

Lecture 1
How (and why) we compute really big polynomials

Lecture 2
More examples from combinatorics and statistical physics

Lecture 3
Computational complexity and physics: diverging paths?